



ENERGY REPORT

building certification | compliance | testing

Energy Strategy Report

Project:

Flat 2,3 & 4, 45 Westwood Road,
Southampton, SO17 1DH

Client:

Clydesdale Group

Project Reference:

J02947

Date:

27th March 2024

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Flats 2,3 & 4, 45 Westwood Road, Southampton, SO17 1DH

This report identifies a solution in order to comply with Planning Condition 02 of planning application 45 Westwood Road, Southampton, Southampton, SO19 7JP.

02. Energy Efficiency - Conversion (Pre-Commencement Condition)

Confirmation of the energy strategy, that will achieve a reduction in CO2 emissions of at least 15% or a minimum Energy Efficiency Rating of 70 post refurbishment (an EPC rating C), must be submitted and approved in writing by the Local Planning Authority prior to the commencement of the development hereby granted consent. Measures that meet the agreed specifications must be installed and rendered fully operational prior to the first occupation of the development hereby granted consent and retained thereafter.

Reason:: To ensure the development has minimised its overall demand for resources and to demonstrate compliance with policy CS20 of the Local Development Framework Core Strategy Development Plan Document Adopted Version (January 2010).

SAP Ratings have been calculated as instructed in accordance with Approved Document L1 2021

It is proposed that to meet the requirements of the above condition the proposed flats are built to the attached specification.

The attached specification identifies the proposed route to meet the minimum Energy Efficiency Rating of 70 (EPC C)

Further to this Predicted Energy Assessment documents are attached.

Construction Specification for Part L 2021 Compliance - Conversion / Extension

Project : 45 Westwood Road, Southampton
Client: Clydesdale Group
Job no. J02947
Revision 1
Date 27/03/2024
Building regs version L1 ADL 2021 - Conversion / Extension

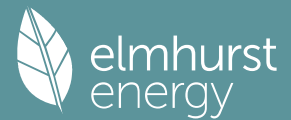


U value

Item	Specification	Calculated	Min requirement
Existing Walls	102.5mm Brick, 50mm Air/space, 100mm Block, 52.5mm PIR insulated plaster board	0.32	0.55
Existing Roof	100mm +200mm Mineral wool insulation	0.14	0.15
Ground Floor	Suspended timber floor no insulation added	2.00	0.70
Glazing	Glazed units	1.30	1.40
Bifold doors	Glazed units	1.30	1.40
Electricity Tariff	Single		
Ventilation	Local extracts only		
Heating	Worcester greenstar 8000 life Combi boiler or similar model		
Controls	Programmer, TRV and bypass		
Hot water	From boiler		
Air Leakage test at 50Pa	-		
Renewables			
% reduction in DER			
Predicted EPC rating	Flat 2= 72C Flat 3=70C Flat 4=71C		

SAP Ratings have been calculated as instructed in accordance with Approved Document ADL 2021

Predicted Energy Assessment



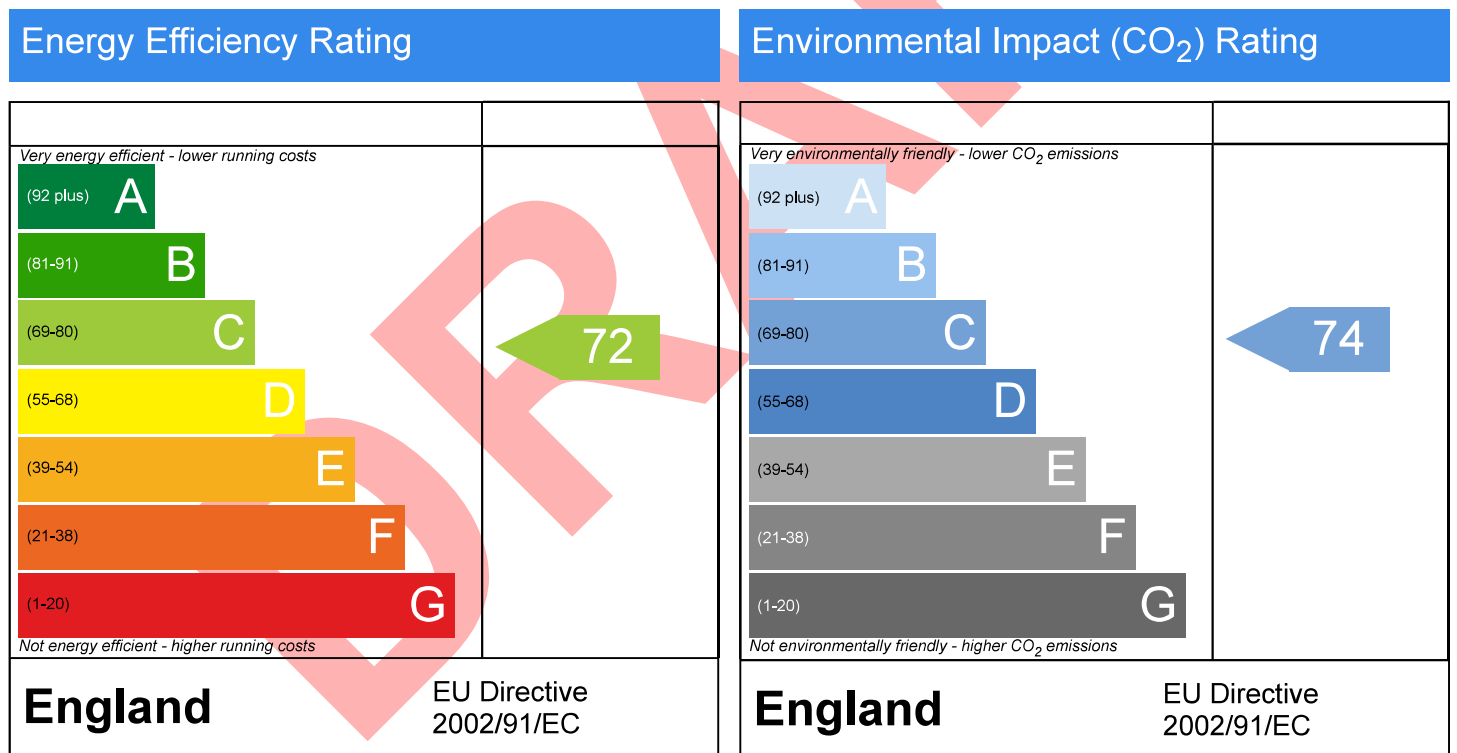
Flat 2, 45, Westwood Road, Southampton, SO17 1DH

Dwelling type:
Date of assessment:
Produced by:
Total floor area:
DRRN:

Flat, Mid-Terrace
27/03/2024
Stephen Harrison
44.3 m²

This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance Certificate will be created for the property. This will include more detailed information about the energy performance of the completed property.

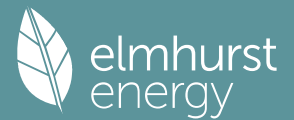
The energy performance has been assessed using the Government approved SAP 10 methodology and is rated in terms of the energy use per square meter of floor area; the energy efficiency is based on fuel costs and the environmental impact is based on carbon dioxide (CO₂) emissions.



The energy efficiency rating is a measure of the overall efficiency of a home. The higher the rating the more energy efficient the home is and the lower the fuel bills are likely to be.

The environmental impact rating is a measure of a home's impact on the environment in terms of carbon dioxide (CO₂) emissions. The higher the rating the less impact it has on the environment.

Predicted Energy Assessment



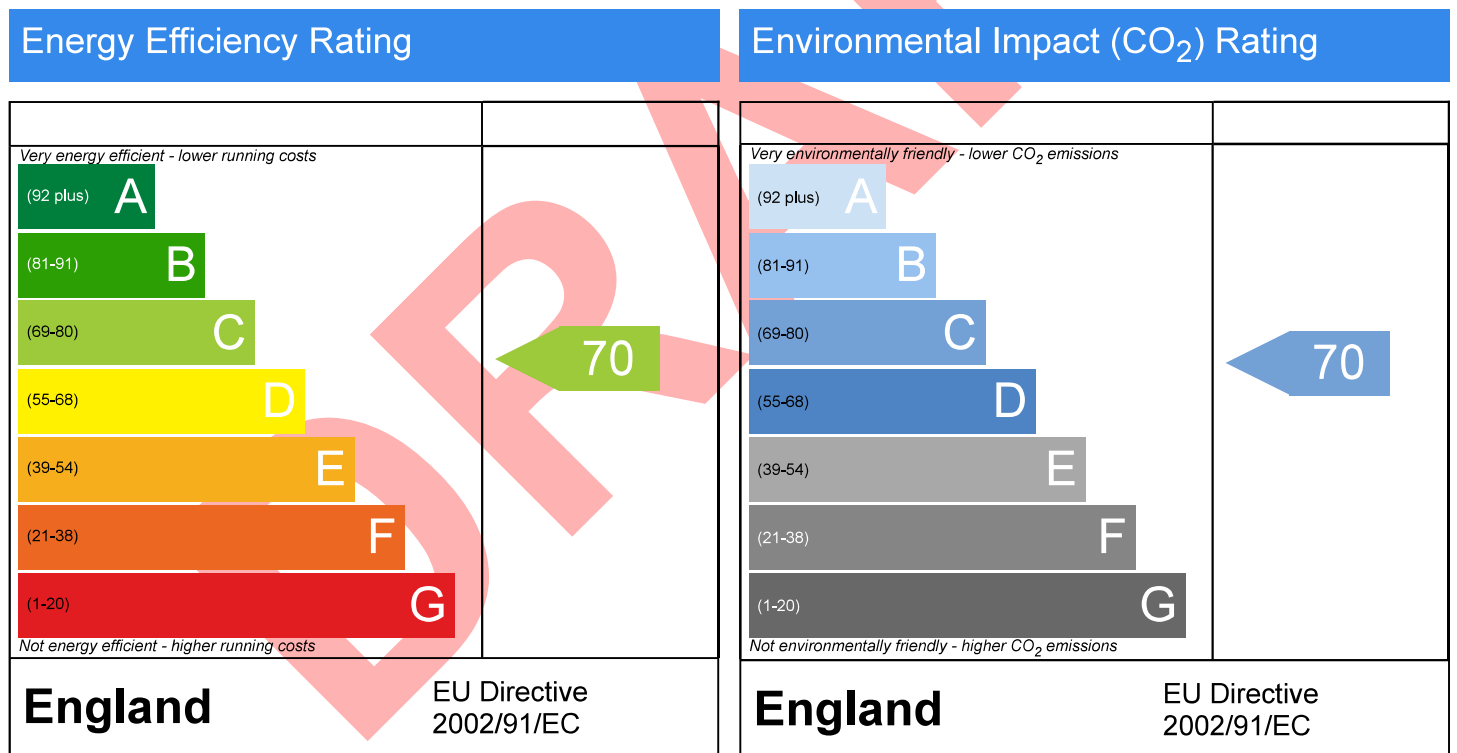
Flat 3, 45, Westwood Road, Southampton, SO17 1DH

Dwelling type:
Date of assessment:
Produced by:
Total floor area:
DRRN:

Flat, Mid-Terrace
27/03/2024
Stephen Harrison
50.2 m²

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The energy performance has been assessed using the Government approved SAP 10 methodology and is rated in terms of the energy use per square meter of floor area; the energy efficiency is based on fuel costs and the environmental impact is based on carbon dioxide (CO₂) emissions.



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The environmental impact rating is a measure of a home's impact on the environment in terms of carbon dioxide (CO₂) emissions. The higher the rating the less impact it has on the environment.

Predicted Energy Assessment



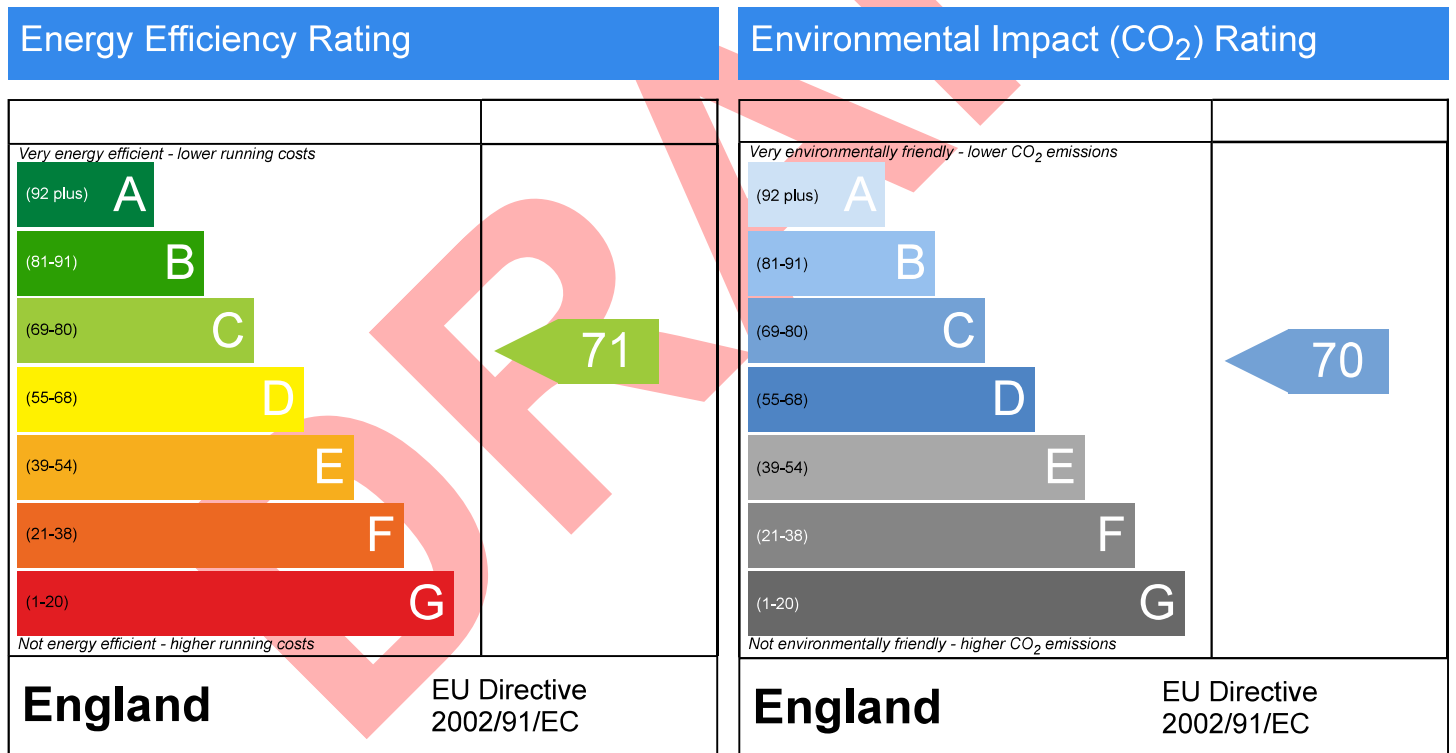
Flat 4, 45, Westwood Road, Southampton, SO17 1DH

Dwelling type:
Date of assessment:
Produced by:
Total floor area:
DRRN:

Flat, Mid-Terrace
27/03/2024
Stephen Harrison
70.5 m²

This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance Certificate will be created for the property. This will include more detailed information about the energy performance of the completed property.

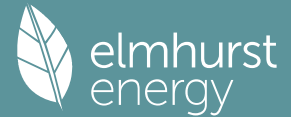
The energy performance has been assessed using the Government approved SAP 10 methodology and is rated in terms of the energy use per square meter of floor area; the energy efficiency is based on fuel costs and the environmental impact is based on carbon dioxide (CO₂) emissions.



The energy efficiency rating is a measure of the overall efficiency of a home. The higher the rating the more energy efficient the home is and the lower the fuel bills are likely to be.

The environmental impact rating is a measure of a home's impact on the environment in terms of carbon dioxide (CO₂) emissions. The higher the rating the less impact it has on the environment.

Summary for Input Data



Property Reference	J02947 Flat 2	Issued on Date	26/03/2024
Assessment Reference	Base	Prop Type Ref	Flat
Property	Flat 2, 45, Westwood Road, Southampton, SO17 1DH		

SAP Rating	72 C	DER		TER	
Environmental	74 C	% DER < TER			N/A
CO ₂ Emissions (t/year)	1.53	DFEE		TFEE	
Compliance Check	See BREL	% DFEE < TFEE			
% DPER < TPER		DPER		TPER	

Assessor Details	Mr. Stephen Harrison	Assessor ID	W557-0001
Client	Clydesdale , Clydesdale Groupe Limited		

SUMMARY FOR INPUT DATA FOR: Conversion (As Designed)

Orientation	Southeast
Property Tenture	1
Transaction Type	6
Terrain Type	Suburban
1.0 Property Type	Flat, Mid-Terrace
Position of Flat	Ground-floor flat
Which Floor	0
2.0 Number of Storeys	1
3.0 Date Built	2024
4.0 Sheltered Sides	3
5.0 Sunlight/Shade	Average or unknown
6.0 Thermal Mass Parameter	Precise calculation

7.0 Electricity Tariff	Standard
Smart electricity meter fitted	Yes
Smart gas meter fitted	Yes

7.0 Measurements		Heat Loss Perimeter	Internal Floor Area	Average Storey Height
	Ground floor:	11.83 m	44.30 m ²	2.40 m

8.0 Living Area	19.60	m ²
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9.0 External Walls										
Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Res	Shelter	Openings	Area Calculation Type
External Wall 1	Cavity Wall	Other	0.32	0.00	28.39	18.43	0.00	None	9.96	Calculate Wall Area

9.1 Party Walls									
Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Area (m ²)	Shelter Res	Shelter		
Party Wall 1	Solid Wall	Other	0.00	0.00	57.03			None	

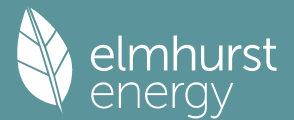
10.1 Party Ceilings									
Description	Construction	Kappa (kJ/m ² K)	Area (m ²)						
Party Ceiling 1	Other	0.00	44.30						

11.0 Heat Loss Floors									
Description	Type	Storey Index	Construction	U-Value (W/m ² K)	Shelter Code	Shelter Factor	Kappa (kJ/m ² K)	Area (m ²)	
Heatloss Floor 1	Ground Floor - Timber	Lowest occupied	Other	2.00	None	0.00	0.00	44.30	

12.0 Opening Types									
Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m ² K)
Opening Type 1	Manufacturer	Window	Double Low-E Soft 0.05			0.63		0.70	1.30

13.0 Openings									
Name	Opening Type	Location	Orientation	Area (m ²)	Pitch				
Opening	Opening Type 1	External Wall 1	North West	6.16					
Opening	Opening Type 1	External Wall 1	South West	3.80					

Summary for Input Data



14.0 Conservatory	<input type="text" value="None"/>				
15.0 Draught Proofing	<input type="text" value="100"/>				%
16.0 Draught Lobby	<input type="text" value="No"/>				
17.0 Thermal Bridging	<input type="text" value="Default"/>				
Y-value	<input type="text" value="0.20"/>				W/m ² K
18.0 Pressure Testing	<input type="text" value="No"/>				
Test Method	<input type="text" value="Blower Door"/>				
19.0 Mechanical Ventilation	Mechanical Ventilation				
Mechanical Ventilation System Present	<input type="text" value="No"/>				
20.0 Fans, Open Fireplaces, Flues					
21.0 Fixed Cooling System	<input type="text" value="No"/>				
22.0 Lighting	<input type="text" value="No"/>				
No Fixed Lighting	<input type="text" value="No"/>				
	Name	Efficacy	Power	Capacity	Count
	Lighting 1	100.00	5	500	4
24.0 Main Heating 1	<input type="text" value="Database"/>				
Percentage of Heat	<input type="text" value="100.00"/>				%
Database Ref. No.	<input type="text" value="18616"/>				
Fuel Type	<input type="text" value="Mains gas"/>				
In Winter	<input type="text" value="83.80"/>				
In Summer	<input type="text" value="88.20"/>				
Model Name	<input type="text" value="Greenstar 8000 Life"/>				
Manufacturer	<input type="text" value="Bosch Thermotechnology"/>				
System Type	<input type="text" value="Combi boiler"/>				
Controls SAP Code	<input type="text" value="2107"/>				
Delayed Start Stat	<input type="text" value="Yes"/>				
Flue Type	<input type="text" value="Balanced"/>				
Fan Assisted Flue	<input type="text" value="Yes"/>				
Is MHS Pumped	<input type="text" value="Pump in heated space"/>				
Heating Pump Age	<input type="text" value="2013 or later"/>				
Heat Emitter	<input type="text" value="Radiators"/>				
Flow Temperature	<input type="text" value="Unknown"/>				
Boiler Interlock	<input type="text" value="Yes"/>				
Combi boiler type	<input type="text" value="Standard Combi"/>				
Combi keep hot type	<input type="text" value="None"/>				
25.0 Main Heating 2	<input type="text" value="None"/>				
26.0 Heat Networks	<input type="text" value="None"/>				
28.0 Water Heating	<input type="text" value="Main Heating 1"/>				
Water Heating	<input type="text" value="Main Heating 1"/>				
SAP Code	<input type="text" value="901"/>				
Flue Gas Heat Recovery System	<input type="text" value="No"/>				
Waste Water Heat Recovery Instantaneous System 1	<input type="text" value="No"/>				
Waste Water Heat Recovery Instantaneous System 2	<input type="text" value="No"/>				
Waste Water Heat Recovery Storage System	<input type="text" value="No"/>				
Solar Panel	<input type="text" value="No"/>				

Summary for Input Data



Water use <= 125 litres/person/day	<input type="text" value="Yes"/>
Cold Water Source	<input type="text" value="From mains"/>
Bath Count	<input type="text" value="0"/>

28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
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28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder

Hot Water Cylinder	<input type="text" value="None"/>
In Airing Cupboard	<input type="text" value="No"/>

Recommendations

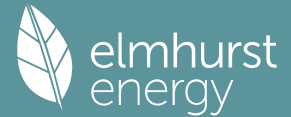
Lower cost measures

None

Further measures to achieve even higher standards

Typical Cost	Typical savings per year	Ratings after improvement	
		SAP rating	Environmental Impact
		0	0
		0	0
		0	0

Summary for Input Data



Property Reference	J02947 Flat 3	Issued on Date	26/03/2024
Assessment Reference	Base	Prop Type Ref	Flat
Property	Flat 3, 45, Westwood Road, Southampton, SO17 1DH		

SAP Rating	70 C	DER		TER	
Environmental	70 C	% DER < TER			N/A
CO ₂ Emissions (t/year)	1.86	DFEE		TFEE	
Compliance Check	See BREL	% DFEE < TFEE			
% DPER < TPER		DPER		TPER	

Assessor Details	Mr. Stephen Harrison	Assessor ID	W557-0001
Client	Clydesdale , Clydesdale Groupe Limited		

SUMMARY FOR INPUT DATA FOR: Conversion (As Designed)

Orientation	Northeast
Property Tenure	1
Transaction Type	6
Terrain Type	Suburban
1.0 Property Type	Flat, Mid-Terrace
Position of Flat	Ground-floor flat
Which Floor	0
2.0 Number of Storeys	1
3.0 Date Built	2024
4.0 Sheltered Sides	2
5.0 Sunlight/Shade	Average or unknown
6.0 Thermal Mass Parameter	Precise calculation

7.0 Electricity Tariff	Standard
Smart electricity meter fitted	Yes
Smart gas meter fitted	Yes

7.0 Measurements		Heat Loss Perimeter	Internal Floor Area	Average Storey Height
	Ground floor:	20.91 m	50.20 m ²	2.40 m

8.0 Living Area	30.05	m ²
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9.0 External Walls										
Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Res	Shelter	Openings	Area Calculation Type
External Wall 1	Cavity Wall	Other	0.32	0.00	50.18	33.92	0.00	None	16.26	Calculate Wall Area

9.1 Party Walls									
Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Area (m ²)	Shelter Res	Shelter		
Party Wall 1	Solid Wall	Other	0.00	0.00	26.88			None	

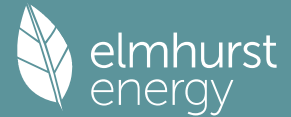
10.0 External Roofs										
Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Code	Shelter Factor	Calculation Type	Openings
External Roof 1	External Plane Roof	Plasterboard, insulated at ceiling level	0.14	9.00	14.82	14.82	None	0.00	Enter Gross Area	0.00

10.1 Party Ceilings									
Description	Construction	Kappa (kJ/m ² K)	Area (m ²)						
Party Ceiling 1	Other	0.00	35.38						

11.0 Heat Loss Floors									
Description	Type	Storey Index	Construction	U-Value (W/m ² K)	Shelter Code	Shelter Factor	Kappa (kJ/m ² K)	Area (m ²)	
Heatloss Floor 1	Ground Floor - Timber	Lowest occupied	Other	2.00	None	0.00	0.00	50.20	

12.0 Opening Types

Summary for Input Data



Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
Opening Type 1	Manufacturer	Window	Double Low-E Soft 0.05			0.63		0.70	1.30
13.0 Openings									
Name	Opening Type	Location	Orientation			Area (m²)	Pitch		
Opening	Opening Type 1	External Wall 1	South West			5.00			
Opening	Opening Type 1	External Wall 1	South East			11.26			
14.0 Conservatory			<input type="text" value="None"/>						
15.0 Draught Proofing			<input type="text" value="100"/> %						
16.0 Draught Lobby			<input type="text" value="No"/>						
17.0 Thermal Bridging			<input type="text" value="Default"/>						
Y-value			<input type="text" value="0.20"/> W/m²K						
18.0 Pressure Testing			<input type="text" value="No"/>						
Test Method			<input type="text" value="Blower Door"/>						
19.0 Mechanical Ventilation									
Mechanical Ventilation									
Mechanical Ventilation System Present			<input type="text" value="No"/>						
20.0 Fans, Open Fireplaces, Flues									
21.0 Fixed Cooling System			<input type="text" value="No"/>						
22.0 Lighting									
No Fixed Lighting			<input type="text" value="No"/>						
			Name	Efficacy	Power	Capacity	Count		
			Lighting 1	100.00	5	500	4		
24.0 Main Heating 1			<input type="text" value="Database"/>						
Percentage of Heat			<input type="text" value="100.00"/> %						
Database Ref. No.			<input type="text" value="18616"/>						
Fuel Type			<input type="text" value="Mains gas"/>						
In Winter			<input type="text" value="83.80"/>						
In Summer			<input type="text" value="88.20"/>						
Model Name			<input type="text" value="Greenstar 8000 Life"/>						
Manufacturer			<input type="text" value="Bosch Thermotechnology"/>						
System Type			<input type="text" value="Combi boiler"/>						
Controls SAP Code			<input type="text" value="2107"/>						
Delayed Start Stat			<input type="text" value="Yes"/>						
Flue Type			<input type="text" value="Balanced"/>						
Fan Assisted Flue			<input type="text" value="Yes"/>						
Is MHS Pumped			<input type="text" value="Pump in heated space"/>						
Heating Pump Age			<input type="text" value="2013 or later"/>						
Heat Emitter			<input type="text" value="Radiators"/>						
Flow Temperature			<input type="text" value="Unknown"/>						
Boiler Interlock			<input type="text" value="Yes"/>						
Combi boiler type			<input type="text" value="Standard Combi"/>						
Combi keep hot type			<input type="text" value="None"/>						
25.0 Main Heating 2			<input type="text" value="None"/>						
26.0 Heat Networks			<input type="text" value="None"/>						

Heat Source	Fuel Type	Heating Use	Efficiency	Percentage Of Heat	Heat	Heat Power Ratio	Electrical	Fuel Factor	Efficiency type
Heat source 1									
Heat source 2									

Summary for Input Data



Heat source 3
Heat source 4
Heat source 5

28.0 Water Heating

Water Heating	Main Heating 1
SAP Code	901
Flue Gas Heat Recovery System	No
Waste Water Heat Recovery Instantaneous System 1	No
Waste Water Heat Recovery Instantaneous System 2	No
Waste Water Heat Recovery Storage System	No
Solar Panel	No
Water use <= 125 litres/person/day	Yes
Cold Water Source	From mains
Bath Count	0

28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
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28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder	None
In Airing Cupboard	No

Recommendations

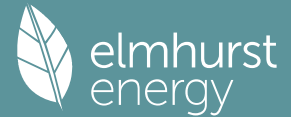
Lower cost measures

None

Further measures to achieve even higher standards

Typical Cost	Typical savings per year	Ratings after improvement	
		SAP rating	Environmental Impact
		0	0
		0	0
		0	0

Summary for Input Data



Property Reference	J02947 Flat 4	Issued on Date	26/03/2024
Assessment Reference	Base	Prop Type Ref	Flat
Property	Flat 4, 45, Westwood Road, Southampton, SO17 1DH		

SAP Rating	71 C	DER		TER	
Environmental	70 C	% DER < TER			N/A
CO ₂ Emissions (t/year)	2.22	DFEE		TFEE	
Compliance Check	See BREL	% DFEE < TFEE			
% DPER < TPER		DPER		TPER	

Assessor Details	Mr. Stephen Harrison	Assessor ID	W557-0001
Client	Clydesdale , Clydesdale Groupe Limited		

SUMMARY FOR INPUT DATA FOR: Conversion (As Designed)

Orientation	Southwest
Property Tenure	1
Transaction Type	6
Terrain Type	Suburban
1.0 Property Type	Flat, Mid-Terrace
Position of Flat	Ground-floor flat
Which Floor	0
2.0 Number of Storeys	1
3.0 Date Built	2024
4.0 Sheltered Sides	2
5.0 Sunlight/Shade	Average or unknown
6.0 Thermal Mass Parameter	Precise calculation

7.0 Electricity Tariff	Standard
Smart electricity meter fitted	Yes
Smart gas meter fitted	Yes

7.0 Measurements		Heat Loss Perimeter	Internal Floor Area	Average Storey Height
	Ground floor:	18.87 m	70.50 m ²	2.40 m

8.0 Living Area	23.19	m ²
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9.0 External Walls										
Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Res	Shelter	Openings	Area Calculation Type
External Wall 1	Cavity Wall	Other	0.32	0.00	45.29	29.85	0.00	None	15.44	Calculate Wall Area

9.1 Party Walls									
Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Area (m ²)	Shelter Res	Shelter		
Party Wall 1	Solid Wall	Other	0.00	0.00	39.88			None	

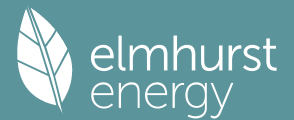
10.1 Party Ceilings									
Description	Construction	Kappa (kJ/m ² K)	Area (m ²)						
Party Ceiling 1	Other	0.00	70.50						

11.0 Heat Loss Floors									
Description	Type	Storey Index	Construction	U-Value (W/m ² K)	Shelter Code	Shelter Factor	Kappa (kJ/m ² K)	Area (m ²)	
Heatloss Floor 2	Ground Floor - Timber	Lowest occupied	Other	2.00	None	0.00	0.00	70.50	

12.0 Opening Types									
Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m ² K)
Opening Type 1	Manufacturer	Window	Double Low-E Soft 0.05			0.63		0.70	1.30

13.0 Openings									
Name	Opening Type	Location	Orientation	Area (m ²)	Pitch				
Opening	Opening Type 1	External Wall 1	South East	8.84					
Opening	Opening Type 1	External Wall 1	North East	6.60					

Summary for Input Data



14.0 Conservatory	<input type="text" value="None"/>				
15.0 Draught Proofing	<input type="text" value="100"/>				%
16.0 Draught Lobby	<input type="text" value="No"/>				
17.0 Thermal Bridging	<input type="text" value="Default"/>				
Y-value	<input type="text" value="0.20"/>				W/m ² K
18.0 Pressure Testing	<input type="text" value="No"/>				
Test Method	<input type="text" value="Blower Door"/>				
19.0 Mechanical Ventilation	Mechanical Ventilation				
Mechanical Ventilation System Present	<input type="text" value="No"/>				
20.0 Fans, Open Fireplaces, Flues					
21.0 Fixed Cooling System	<input type="text" value="No"/>				
22.0 Lighting	<input type="text" value="No"/>				
No Fixed Lighting	<input type="text" value="No"/>				
	Name	Efficacy	Power	Capacity	Count
	Lighting 1	100.00	5	500	6
24.0 Main Heating 1	<input type="text" value="Database"/>				
Percentage of Heat	<input type="text" value="100.00"/>				%
Database Ref. No.	<input type="text" value="18616"/>				
Fuel Type	<input type="text" value="Mains gas"/>				
In Winter	<input type="text" value="83.80"/>				
In Summer	<input type="text" value="88.20"/>				
Model Name	<input type="text" value="Greenstar 8000 Life"/>				
Manufacturer	<input type="text" value="Bosch Thermotechnology"/>				
System Type	<input type="text" value="Combi boiler"/>				
Controls SAP Code	<input type="text" value="2107"/>				
Delayed Start Stat	<input type="text" value="Yes"/>				
Flue Type	<input type="text" value="Balanced"/>				
Fan Assisted Flue	<input type="text" value="Yes"/>				
Is MHS Pumped	<input type="text" value="Pump in heated space"/>				
Heating Pump Age	<input type="text" value="2013 or later"/>				
Heat Emitter	<input type="text" value="Radiators"/>				
Flow Temperature	<input type="text" value="Unknown"/>				
Boiler Interlock	<input type="text" value="Yes"/>				
Combi boiler type	<input type="text" value="Standard Combi"/>				
Combi keep hot type	<input type="text" value="None"/>				
25.0 Main Heating 2	<input type="text" value="None"/>				
26.0 Heat Networks	<input type="text" value="None"/>				
28.0 Water Heating	<input type="text" value="Main Heating 1"/>				
Water Heating	<input type="text" value="Main Heating 1"/>				
SAP Code	<input type="text" value="901"/>				
Flue Gas Heat Recovery System	<input type="text" value="No"/>				
Waste Water Heat Recovery Instantaneous System 1	<input type="text" value="No"/>				
Waste Water Heat Recovery Instantaneous System 2	<input type="text" value="No"/>				
Waste Water Heat Recovery Storage System	<input type="text" value="No"/>				
Solar Panel	<input type="text" value="No"/>				

Summary for Input Data



Water use <= 125 litres/person/day	<input type="text" value="Yes"/>
Cold Water Source	<input type="text" value="From mains"/>
Bath Count	<input type="text" value="0"/>

28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
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28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder

	<input type="text" value="None"/>
In Airing Cupboard	<input type="text" value="No"/>

Recommendations

Lower cost measures

None

Further measures to achieve even higher standards

Typical Cost	Typical savings per year	Ratings after improvement	
		SAP rating	Environmental Impact
		0	0
		0	0
		0	0